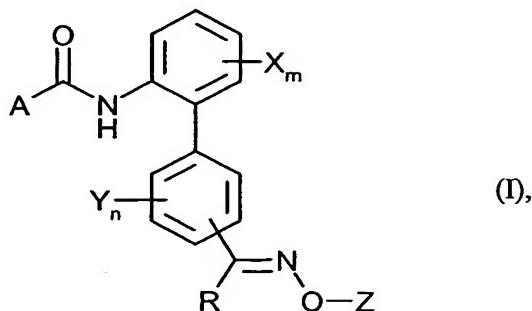


Claims

1. A biphenylcarboxamide of the formula (I)



5 in which

R represents hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl or C<sub>1</sub>-C<sub>3</sub>-haloalkyl having in each case 1 to 7 fluorine, chlorine and/or bromine atoms,

Z represents C<sub>3</sub>-C<sub>8</sub>-alkenyl, C<sub>3</sub>-C<sub>8</sub>-alkynyl, C<sub>3</sub>-C<sub>8</sub>-haloalkenyl, C<sub>3</sub>-C<sub>8</sub>-haloalkynyl having in each case 1 to 5 fluorine, chlorine and/or bromine atoms, or (C<sub>3</sub>-C<sub>8</sub>-cycloalkyl)(C<sub>1</sub>-C<sub>4</sub>-alkyl),

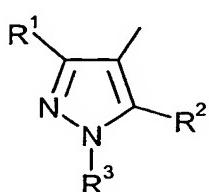
X and Y independently of one another represent halogen, cyano, nitro, C<sub>1</sub>-C<sub>8</sub>-alkyl, C<sub>1</sub>-C<sub>8</sub>-alkoxy, C<sub>1</sub>-C<sub>8</sub>-alkylthio, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy or C<sub>1</sub>-C<sub>6</sub>-haloalkylthio having in each case 1 to 13 fluorine, chlorine and/or bromine atoms,

15 m represents 0, 1, 2, 3 or 4, where x represents identical or different radicals if m represents 2, 3 or 4,

n represents 0, 1, 2, 3 or 4, where y represents identical or different radicals if n represents 2, 3 or 4,

and

20 A represents a radical of the formula



in which

R<sup>1</sup> represents hydrogen, cyano, halogen, nitro, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-alkylthio, aminocarbonyl, aminocarbonyl-C<sub>1</sub>-C<sub>4</sub>-alkyl or represents C<sub>1</sub>-C<sub>4</sub>-haloalkyl, C<sub>1</sub>-C<sub>4</sub>-

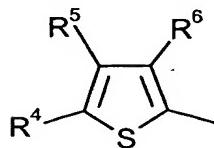
haloalkoxy, C<sub>1</sub>-C<sub>4</sub>-haloalkylthio having in each case 1 to 5 halogen atoms, and

R<sup>2</sup> represents hydrogen, halogen, cyano, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy or C<sub>1</sub>-C<sub>4</sub>-alkylthio and

5 R<sup>3</sup> represents hydrogen, C<sub>1</sub>-C<sub>4</sub>-alkyl, hydroxy-C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>1</sub>-C<sub>4</sub>-alkylthio-C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy-C<sub>1</sub>-C<sub>4</sub>-alkyl, or represents C<sub>1</sub>-C<sub>4</sub>-haloalkyl, halo(C<sub>1</sub>-C<sub>4</sub>-alkylthio-C<sub>1</sub>-C<sub>4</sub>-alkyl), halo(C<sub>1</sub>-C<sub>4</sub>-alkoxy-C<sub>1</sub>-C<sub>4</sub>-alkyl) having in each case 1 to 5 halogen atoms or represents phenyl,

10 or

A represents a radical of the formula



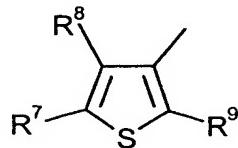
in which

R<sup>4</sup> and R<sup>5</sup> independently of one another represent hydrogen, halogen, C<sub>1</sub>-C<sub>4</sub>-alkyl or C<sub>1</sub>-C<sub>4</sub>-haloalkyl having 1 to 5 halogen atoms and

15 R<sup>6</sup> represents halogen, cyano or C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-haloalkyl, C<sub>1</sub>-C<sub>4</sub>-haloalkoxy having in each case 1 to 5 halogen atoms,

or

A represents a radical of the formula



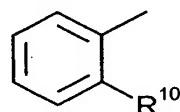
20 in which

R<sup>7</sup> and R<sup>8</sup> independently of one another represent hydrogen, halogen, C<sub>1</sub>-C<sub>4</sub>-alkyl or C<sub>1</sub>-C<sub>4</sub>-haloalkyl having 1 to 5 halogen atoms and

R<sup>9</sup> represents hydrogen, halogen or C<sub>1</sub>-C<sub>4</sub>-alkyl,

25 or

A represents a radical of the formula

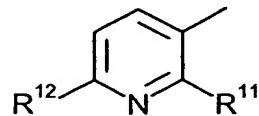


in which

$R^{10}$  represents hydrogen, halogen, hydroxyl, cyano,  $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_4$ -haloalkyl,  $C_1$ - $C_4$ -haloalkoxy,  $C_1$ - $C_4$ -haloalkylthio having in each case 1 to 5 halogen atoms,

or

5      A represents a radical of the formula



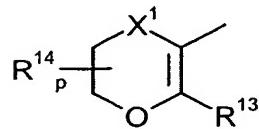
in which

10      $R^{11}$  represents halogen, hydroxyl, cyano,  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy,  $C_1$ - $C_4$ -alkylthio,  $C_1$ - $C_4$ -haloalkyl,  $C_1$ - $C_4$ -haloalkoxy,  $C_1$ - $C_4$ -haloalkylthio having in each case 1 to 5 halogen atoms and

12      $R^{12}$  represents hydrogen, halogen, cyano,  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy,  $C_1$ - $C_4$ -alkylthio,  $C_1$ - $C_4$ -alkylsulfinyl,  $C_1$ - $C_4$ -alkylsulfonyl or represents  $C_1$ - $C_4$ -haloalkyl,  $C_1$ - $C_4$ -haloalkoxy having in each case 1 to 5 halogen atoms,

15     or

A represents a radical of the formula



in which

20      $R^{13}$  represents  $C_1$ - $C_4$ -alkyl or represents  $C_1$ - $C_4$ -haloalkyl having 1 to 5 halogen atoms,

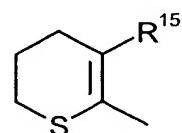
$R^{14}$  represents  $C_1$ - $C_4$ -alkyl,

$X^1$  represents S (sulfur), represents SO, SO<sub>2</sub> or CH<sub>2</sub> and

p represents 0, 1 or 2,

or

25     A represents a radical of the formula

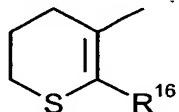


in which

R<sup>15</sup> represents C<sub>1</sub>-C<sub>4</sub>-alkyl or represents C<sub>1</sub>-C<sub>4</sub>-haloalkyl having 1 to 5 halogen atoms,

or

A represents a radical of the formula



5

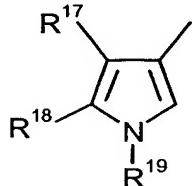
in which

R<sup>16</sup> represents C<sub>1</sub>-C<sub>4</sub>-alkyl or represents C<sub>1</sub>-C<sub>4</sub>-haloalkyl having 1 to 5 halogen atoms,

or

10

A represents a radical of the formula



in which

R<sup>17</sup> represents halogen, cyano, C<sub>1</sub>-C<sub>4</sub>-alkyl or represents C<sub>1</sub>-C<sub>4</sub>-haloalkyl having 1 to 5 halogen atoms,

15

R<sup>18</sup> represents hydrogen, halogen, C<sub>1</sub>-C<sub>4</sub>-alkyl or represents C<sub>1</sub>-C<sub>4</sub>-haloalkyl having 1 to 5 halogen atoms,

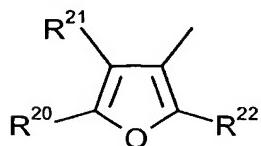
R<sup>19</sup> represents hydrogen, cyano, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-haloalkyl having 1 to 5 halogen atoms, C<sub>1</sub>-C<sub>4</sub>-alkoxy-C<sub>1</sub>-C<sub>4</sub>-alkyl, hydroxy-C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkysulfonyl, di(C<sub>1</sub>-C<sub>4</sub>-alkyl)aminosulfonyl, C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyl or

20

represents optionally substituted phenylsulfonyl or benzoyl,

or

A represents a radical of the formula



in which

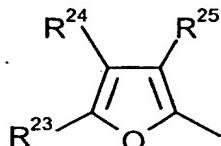
25

R<sup>20</sup> and R<sup>21</sup> independently of one another represent hydrogen, halogen, amino, C<sub>1</sub>-C<sub>4</sub>-alkyl or represent C<sub>1</sub>-C<sub>4</sub>-haloalkyl having 1 to 5 halogen atoms and

$R^{22}$  represents hydrogen, halogen,  $C_1$ - $C_4$ -alkyl or represents  $C_1$ - $C_4$ -haloalkyl having 1 to 5 halogen atoms,

or

A represents a radical of the formula



5

in which

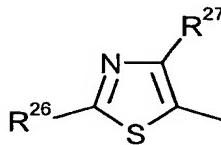
$R^{23}$  and  $R^{24}$  independently of one another represent hydrogen, halogen, amino, nitro,  $C_1$ - $C_4$ -alkyl or represent  $C_1$ - $C_4$ -haloalkyl having 1 to 5 halogen atoms and

10

$R^{25}$  represents hydrogen, halogen,  $C_1$ - $C_4$ -alkyl or represents  $C_1$ - $C_4$ -haloalkyl having 1 to 5 halogen atoms,

or

A represents a radical of the formula



15

in which

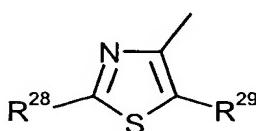
$R^{26}$  represents hydrogen, halogen, amino,  $C_1$ - $C_4$ -alkylamino, di-( $C_1$ - $C_4$ -alkyl)amino, cyano,  $C_1$ - $C_4$ -alkyl or represents  $C_1$ - $C_4$ -haloalkyl having 1 to 5 halogen atoms and

20

$R^{27}$  represents halogen,  $C_1$ - $C_4$ -alkyl or  $C_1$ - $C_4$ -haloalkyl having 1 to 5 halogen atoms,

or

A represents a radical of the formula



in which

25

$R^{28}$  represents hydrogen, halogen, amino,  $C_1$ - $C_4$ -alkylamino, di-( $C_1$ - $C_4$ -alkyl)amino, cyano,  $C_1$ - $C_4$ -alkyl or represents  $C_1$ - $C_4$ -haloalkyl having 1 to 5 halogen atoms and

R<sup>29</sup> represents halogen, C<sub>1</sub>-C<sub>4</sub>-alkyl or C<sub>1</sub>-C<sub>4</sub>-haloalkyl having 1 to 5 halogen atoms,

or

A represents a radical of the formula



5

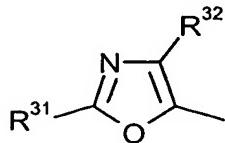
in which

R<sup>30</sup> represents halogen, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-haloalkyl having 1 to 5 halogen atoms,

or

10

A represents a radical of the formula



in which

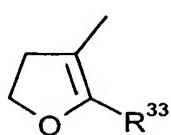
R<sup>31</sup> represents hydrogen or C<sub>1</sub>-C<sub>4</sub>-alkyl and

R<sup>32</sup> represents halogen or C<sub>1</sub>-C<sub>4</sub>-alkyl,

15

or

A represents a radical of the formula



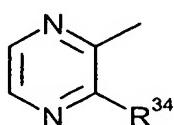
in which

R<sup>33</sup> represents C<sub>1</sub>-C<sub>4</sub>-alkyl or C<sub>1</sub>-C<sub>4</sub>-haloalkyl having 1 to 5 halogen atoms,

20

or

A represents a radical of the formula



in which

R<sup>34</sup> represents hydrogen, halogen, C<sub>1</sub>-C<sub>4</sub>-alkyl or C<sub>1</sub>-C<sub>2</sub>-haloalkyl having 1 to 5 halogen atoms.

25

2. The biphenylcarboxamide of the formula (I) as claimed in claim 1 in which

R represents hydrogen, C<sub>1</sub>-C<sub>4</sub>-alkyl or C<sub>1</sub>-C<sub>3</sub>-haloalkyl having in each case 1 to 7 fluorine, chlorine and/or bromine atoms,

5 Z represents C<sub>3</sub>-C<sub>6</sub>-alkenyl, C<sub>3</sub>-C<sub>6</sub>-alkynyl, C<sub>3</sub>-C<sub>6</sub>-haloalkenyl, C<sub>3</sub>-C<sub>6</sub>-haloalkynyl having in each case 1 to 5 fluorine, chlorine and/or bromine atoms, or (C<sub>3</sub>-C<sub>6</sub>-cycloalkyl)-(C<sub>1</sub>-C<sub>4</sub>-alkyl),

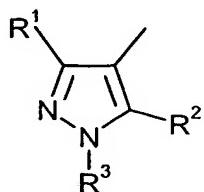
10 X and Y independently of one another represent fluorine, chlorine, bromine, cyano, nitro, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>6</sub>-alkylthio, C<sub>1</sub>-C<sub>2</sub>-haloalkyl, C<sub>1</sub>-C<sub>2</sub>-haloalkoxy or C<sub>1</sub>-C<sub>2</sub>-haloalkylthio having in each case 1 to 5 fluorine, chlorine and/or bromine atoms,

15 m represents 0, 1, 2 or 3, where x represents identical or different radicals if m represents 2 or 3,

n represents 0, 1, 2 or 3, where y represents identical or different radicals if m represents 2 or 3,

and

A represents a radical of the formula



in which

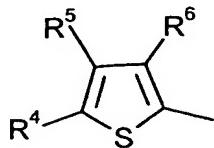
20 R<sup>1</sup> represents hydrogen, cyano, fluorine, chlorine, bromine, iodine, methyl, ethyl, isopropyl, cyclopropyl, methoxy, ethoxy, methylthio, ethylthio, aminocarbonyl, aminocarbonylmethyl, aminocarbonylethyl, C<sub>1</sub>-C<sub>2</sub>-haloalkyl C<sub>1</sub>-C<sub>2</sub>-haloalkoxy having in each case 1 to 5 fluorine, chlorine and/or bromine atoms, trifluoromethylthio or difluoromethylthio,

25 R<sup>2</sup> represents hydrogen, fluorine, chlorine, bromine, iodine, methyl, ethyl, methoxy, ethoxy, methylthio or ethylthio and

30 R<sup>3</sup> represents hydrogen, methyl, ethyl, n-propyl, isopropyl, hydroxymethyl, hydroxyethyl, cyclopropyl, cyclopentyl, cyclohexyl, C<sub>1</sub>-C<sub>2</sub>-haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms or represents phenyl,

or

A represents a radical of the formula



in which

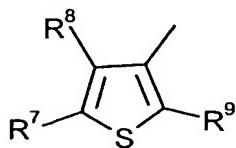
5      R<sup>4</sup> and R<sup>5</sup> independently of one another represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl or C<sub>1</sub>-C<sub>2</sub>-haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

R<sup>6</sup>    represents fluorine, chlorine, bromine, iodine, cyano, methyl, ethyl, trifluoromethyl or C<sub>1</sub>-C<sub>2</sub>-haloalkoxy having 1 to 5 fluorine, chlorine and/or bromine atoms,

10

or

A represents a radical of the formula



in which

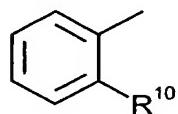
15     R<sup>7</sup> and R<sup>8</sup> independently of one another represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl or C<sub>1</sub>-C<sub>2</sub>-haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

R<sup>9</sup>    represents hydrogen, fluorine, chlorine, bromine, methyl or ethyl,

or

20

A represents a radical of the formula



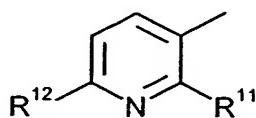
in which

25

R<sup>10</sup>   represents hydrogen, fluorine, chlorine, bromine, iodine, hydroxyl, cyano, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>2</sub>-haloalkyl, C<sub>1</sub>-C<sub>2</sub>-haloalkoxy, C<sub>1</sub>-C<sub>2</sub>-haloalkylthio having in each case 1 to 5 fluorine, chlorine and/or bromine atoms,

or

A represents a radical of the formula



in which

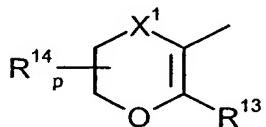
R¹¹ represents fluorine, chlorine, bromine, iodine, hydroxyl, cyano, C<sub>1</sub>-C<sub>4</sub>-alkyl, methoxy, ethoxy, methylthio, ethylthio, C<sub>1</sub>-C<sub>2</sub>-haloalkyl, C<sub>1</sub>-C<sub>2</sub>-haloalkoxy having in each case 1 to 5 fluorine, chlorine and/or bromine atoms, trifluoromethylthio, difluoromethylthio and

R¹² represents hydrogen, fluorine, chlorine, bromine, iodine, cyano, C<sub>1</sub>-C<sub>4</sub>-alkyl, methoxy, ethoxy, methylthio, ethylthio, C<sub>1</sub>-C<sub>2</sub>-alkylsulfinyl, C<sub>1</sub>-C<sub>2</sub>-alkylsulfonyl, C<sub>1</sub>-C<sub>2</sub>-haloalkyl, C<sub>1</sub>-C<sub>2</sub>-haloalkoxy having in each case 1 to 5 fluorine, chlorine and/or bromine atoms,

10

or

A represents a radical of the formula



in which

R¹³ represents methyl, ethyl or represents C<sub>1</sub>-C<sub>2</sub>-haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

R¹⁴ represents methyl or ethyl,

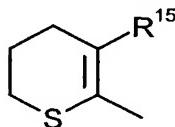
X¹ represents S (sulfur), represents SO, SO<sub>2</sub> or CH<sub>2</sub> and

p represents 0, 1 or 2,

15

or

A represents a radical of the formula



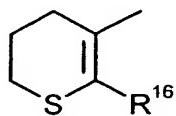
in which

R¹⁵ represents methyl, ethyl or represents C<sub>1</sub>-C<sub>2</sub>-haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

20

or

A represents a radical of the formula



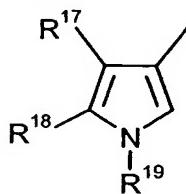
in which

R<sup>16</sup> represents methyl, ethyl or represents C<sub>1</sub>-C<sub>2</sub>-haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

5

or

A represents a radical of the formula



in which

R<sup>17</sup> represents fluorine, chlorine, bromine, cyano, methyl, ethyl, isopropyl or represents C<sub>1</sub>-C<sub>2</sub>-haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

10

R<sup>18</sup> represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl or represents C<sub>1</sub>-C<sub>2</sub>-haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

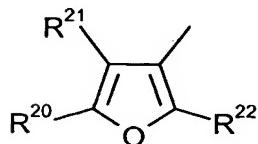
15

R<sup>19</sup> represents hydrogen, methyl, ethyl, C<sub>1</sub>-C<sub>2</sub>-haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms, C<sub>1</sub>-C<sub>2</sub>-alkoxy-C<sub>1</sub>-C<sub>2</sub>-alkyl, hydroxymethyl, hydroxyethyl, methylsulfonyl or dimethylaminosulfonyl,

or

20

A represents a radical of the formula



in which

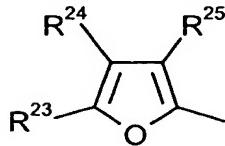
R<sup>20</sup> and R<sup>21</sup> independently of one another represent hydrogen, fluorine, chlorine, bromine, amino, methyl, ethyl or represent C<sub>1</sub>-C<sub>2</sub>-haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

25

$R^{22}$  represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl or represents  $C_1$ - $C_2$ -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

5 A represents a radical of the formula



in which

$R^{23}$  and  $R^{24}$  independently of one another represent hydrogen, fluorine, chlorine, bromine, amino, nitro, methyl, ethyl or represent  $C_1$ - $C_2$ -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

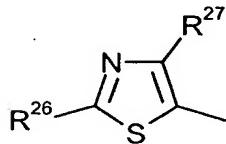
10

$R^{25}$  represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl or represents  $C_1$ - $C_2$ -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

15

A represents a radical of the formula



in which

$R^{26}$  represents hydrogen, fluorine, chlorine, bromine, amino,  $C_1$ - $C_4$ -alkylamino, di-( $C_1$ - $C_4$ -alkyl)amino, cyano, methyl, ethyl or represents  $C_1$ - $C_2$ -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

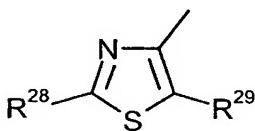
20

$R^{27}$  represents fluorine, chlorine, bromine, methyl, ethyl,  $C_1$ - $C_2$ -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

25

A represents a radical of the formula



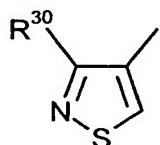
in which

$R^{28}$  represents hydrogen, fluorine, chlorine, bromine, amino,  $C_1$ - $C_4$ -alkylamino, di-( $C_1$ - $C_4$ -alkyl)amino, cyano, methyl, ethyl or represents  $C_1$ - $C_2$ -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

5       $R^{29}$  represents fluorine, chlorine, bromine, methyl, ethyl or  $C_1$ - $C_2$ -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

A represents a radical of the formula

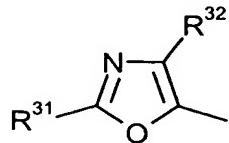


10     in which

$R^{30}$  represents fluorine, chlorine, bromine, methyl, ethyl or  $C_1$ - $C_2$ -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

A represents a radical of the formula



15

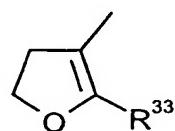
in which

$R^{31}$  represents hydrogen, methyl or ethyl and

$R^{32}$  represents fluorine, chlorine, bromine, methyl or ethyl,

or

20     A represents a radical of the formula



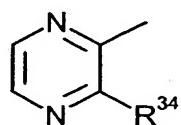
in which

$R^{33}$  represents methyl, ethyl or  $C_1$ - $C_2$ -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

25

or

A represents a radical of the formula



in which

$\text{R}^{\text{34}}$  represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl or trifluoromethyl.

5

3. The biphenylcarboxamide of the formula (I) as claimed in claim 1 in which

$\text{R}$  represents hydrogen, methyl, ethyl, isopropyl, tert-butyl,

$\text{Z}$  represents allyl, 2-butenyl, 2-methylallyl, 1-methylallyl, 3-methyl-2-butenyl, propargyl, 2-butynyl, 3-butynyl, 2-methyl-3-butynyl, 3,3-difluoroallyl, 3,3-dichloroallyl, cyclopropylmethyl, cyclopentylmethyl, cyclohexylmethyl,

10

$\text{X}$  and  $\text{Y}$  independently of one another represent fluorine, chlorine, bromine, cyano, nitro, methyl, ethyl, n-propyl, isopropyl, n-butyl, sec-butyl, isobutyl, tert-butyl, methoxy, ethoxy, methylthio, trichloromethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl, difluoromethoxy, trifluoromethoxy, trifluoromethylthio, difluorochloromethylthio,

15

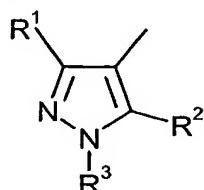
$\text{m}$  represents 0 or 1,

$\text{n}$  represents 0, 1 or 2, where  $\text{y}$  represents identical or different radicals if  $\text{n}$  represents 2,

and

20

$\text{A}$  represents a radical of the formula



in which

$\text{R}^1$  represents hydrogen, fluorine, chlorine, bromine, iodine, methyl, ethyl, isopropyl, cyclopropyl, methoxy, ethoxy, methylthio, ethylthio, monofluoromethyl, difluoromethyl, trifluoromethyl, difluorochloromethyl, trichloromethyl, trifluoromethoxy, trichloromethoxy, trifluoromethylthio or difluoromethylthio and

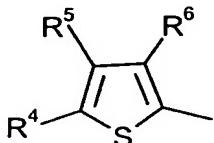
25

$\text{R}^2$  represents hydrogen, fluorine, chlorine, bromine, iodine, methyl, ethyl, methoxy, ethoxy, methylthio or ethylthio and

R<sup>3</sup> represents hydrogen, methyl, ethyl, hydroxymethyl, hydroxyethyl, trifluoromethyl, difluoromethyl or phenyl,

or

A represents a radical of the formula



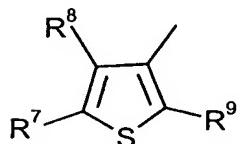
in which

R<sup>4</sup> and R<sup>5</sup> independently of one another represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl, difluoromethyl, trifluoromethyl, difluorochloromethyl or trichloromethyl and

10 R<sup>6</sup> represents fluorine, chlorine, bromine, cyano, methyl, trifluoromethyl, trifluoromethoxy, difluoromethoxy, difluorochloromethoxy or trichloromethoxy,

or

A represents a radical of the formula



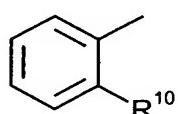
in which

R<sup>7</sup> and R<sup>8</sup> independently of one another represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl, difluoromethyl, trifluoromethyl, difluorochloromethyl or trichloromethyl and

20 R<sup>9</sup> represents hydrogen, fluorine, chlorine, bromine, methyl or ethyl,

or

A represents a radical of the formula



in which

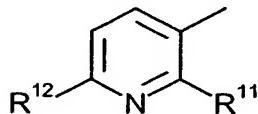
25 R<sup>10</sup> represents hydrogen, fluorine, chlorine, bromine, iodine, hydroxyl, cyano, methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, sec-butyl, tert-butyl, difluoromethyl, trifluoromethyl,

difluorochloromethyl, trichloromethyl, trifluoromethoxy,  
 difluoromethoxy, difluorochloromethoxy, trichloromethoxy,  
 trifluoromethylthio, difluoromethylthio, difluorochloromethylthio  
 or trichloromethylthio,

5

or

A represents a radical of the formula



in which

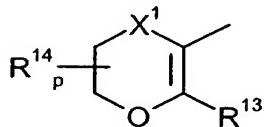
R<sup>11</sup> represents fluorine, chlorine, bromine, iodine, hydroxyl, cyano,  
 10 methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, sec-butyl, tert-  
 butyl, methoxy, ethoxy, methylthio, ethylthio, trifluoromethyl,  
 difluoromethyl, difluorochloromethyl, trichloromethyl,  
 trifluoromethoxy, difluoromethoxy, difluorochloromethoxy,  
 trichloromethoxy, difluoromethylthio, trifluoromethylthio and

15

R<sup>12</sup> represents hydrogen, fluorine, chlorine, bromine, iodine, cyano,  
 methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, sec-butyl, tert-  
 butyl, methoxy, ethoxy, methylthio, ethylthio, methylsulfinyl,  
 methylsulfonyl, trifluoromethyl, difluoromethyl,  
 difluorochloromethyl, trichloromethyl, trifluoromethoxy,  
 20 difluoromethoxy, difluorochloromethoxy or trichloromethoxy,

or

A represents a radical of the formula



in which

R<sup>13</sup> represents methyl, ethyl, trifluoromethyl, difluoromethyl,  
 difluorochloromethyl or trichloromethyl and

R<sup>14</sup> represents methyl or ethyl,

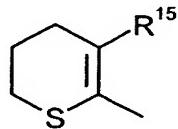
X<sup>1</sup> represents S (sulfur), represents SO, SO<sub>2</sub> or CH<sub>2</sub> and

p represents 0, 1 or 2,

30

or

A represents a radical of the formula

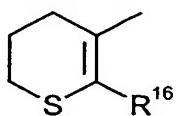


in which

R¹⁵ represents methyl, ethyl, trifluoromethyl, difluoromethyl,  
5 difluorochloromethyl or trichloromethyl,

or

A represents a radical of the formula

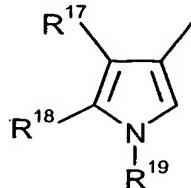


in which

10 R¹⁶ represents methyl, ethyl, trifluoromethyl, difluoromethyl,  
difluorochloromethyl or trichloromethyl,

or

A represents a radical of the formula



15 in which

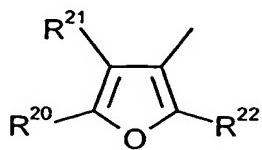
R¹⁷ represents fluorine, chlorine, bromine, cyano, methyl, ethyl,  
isopropyl, trifluoromethyl, difluoromethyl, difluorochloromethyl  
or trichloromethyl,

20 R¹⁸ represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl,  
trifluoromethyl, difluoromethyl or trichloromethyl and

R¹⁹ represents hydrogen, methyl, ethyl, trifluoromethyl, methoxymethyl,  
ethoxymethyl, hydroxymethyl or hydroxyethyl,

or

A represents a radical of the formula



in which

R<sup>20</sup> and R<sup>21</sup> independently of one another represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl or trichloromethyl and

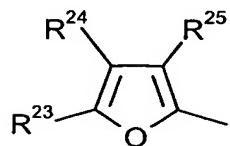
5

R<sup>22</sup> represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl or trichloromethyl,

or

10

A represents a radical of the formula



in which

R<sup>23</sup> and R<sup>24</sup> independently of one another represent hydrogen, fluorine, chlorine, bromine, nitro, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl or trichloromethyl and

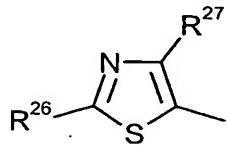
15

R<sup>25</sup> represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl or trichloromethyl,

or

20

A represents a radical of the formula



in which

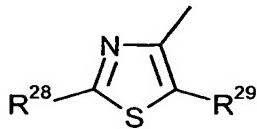
R<sup>26</sup> represents hydrogen, fluorine, chlorine, bromine, amino, methylamino, dimethylamino, cyano, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl or trichloromethyl and

25

R<sup>27</sup> represents fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl or trichloromethyl,

or

5 A represents a radical of the formula



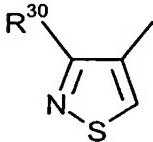
in which

R<sup>28</sup> represents hydrogen, fluorine, chlorine, bromine, amino, methylamino, dimethylamino, cyano, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl or trichloromethyl and

10 R<sup>29</sup> represents fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl or trichloromethyl,

15 or

A represents a radical of the formula

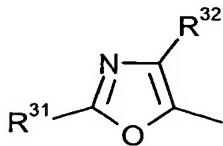


in which

20 R<sup>30</sup> represents fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl or trichloromethyl,

or

A represents a radical of the formula



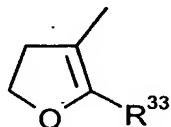
in which

25 R<sup>31</sup> represents hydrogen, methyl or ethyl and

R<sup>32</sup> represents fluorine, chlorine, bromine, methyl or ethyl,

or

A represents a radical of the formula

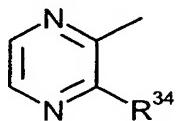


in which

5 R<sup>33</sup> represents methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl or trichloromethyl,

or

A represents a radical of the formula

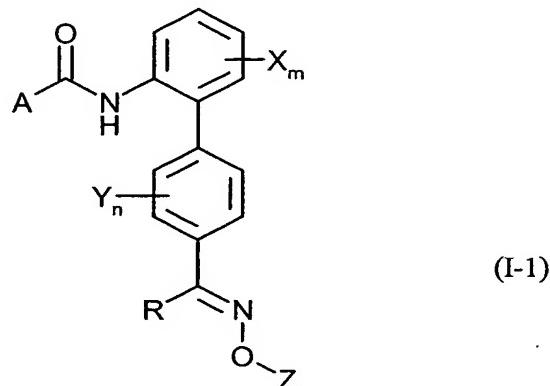


10

in which

R<sup>34</sup> represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl or trifluoromethyl.

4. The biphenylcarboxamide of the formula (I-1)



15

in which

R, Z, X, Y, m, n and A are as defined in any of claims 1 to 3.

5. A process for preparing biphenylcarboxamides of the formula (I) as claimed in  
20 claim 1, characterized in that

a) carboxylic acid derivatives of the formula (II)



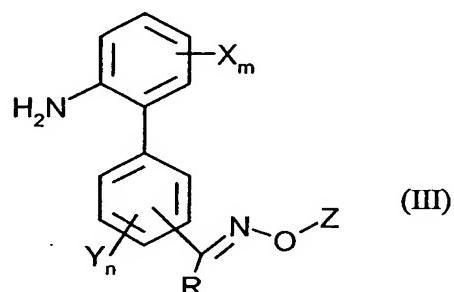
in which

A is as defined in claim 1 and

G represents halogen, hydroxyl or C<sub>1</sub>-C<sub>6</sub>-alkoxy

5

are reacted with aniline derivatives of the formula (III)



in which

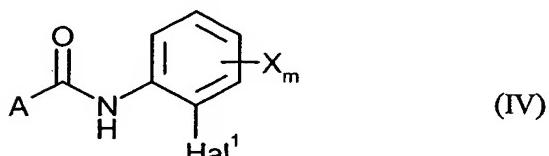
R, Z, X, Y, m and n are as defined in claim 1,

10

if appropriate in the presence of a catalyst, if appropriate in the presence of an acid binder and if appropriate in the presence of a diluent,

or

b) carboxamide derivatives of the formula (IV)



15

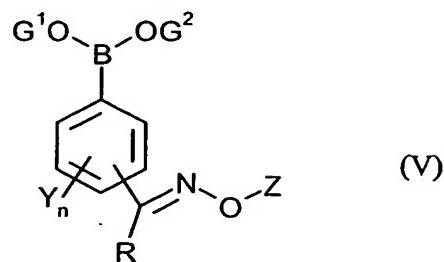
in which

A, X and m are as defined in claim 1,

Hal<sup>1</sup> represents bromine or iodine,

20

are reacted with boronic acid derivatives of the formula (V)



in which

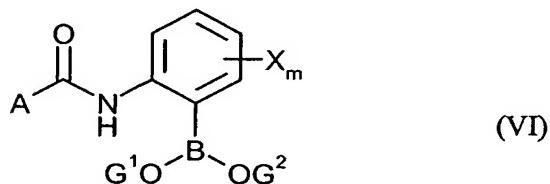
R, Z, Y and n are as defined in claim 1 and

G<sup>1</sup> and G<sup>2</sup> each represent hydrogen or together represent  
5 tetramethylethylene

in the presence of a catalyst, if appropriate in the presence of an acid binder  
and if appropriate in the presence of a diluent,

or

10 c) carboxamide boronic acid derivatives of the formula (VI)

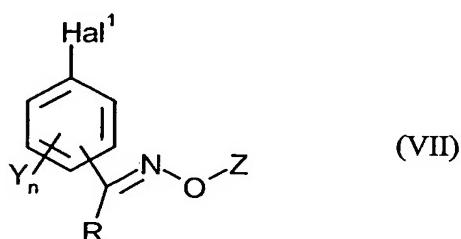


in which

A, X and m are as defined in claim 1 and

G<sup>1</sup> and G<sup>2</sup> each represent hydrogen or together represent  
15 tetramethylethylene

are reacted with phenyl oxime derivatives of the formula (VII)



in which

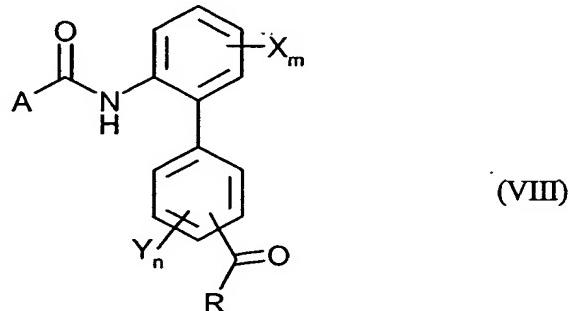
20 R, Z, Y and n are as defined in claim 1,

Hal¹ represents bromine or iodine,

in the presence of a catalyst, if appropriate in the presence of an acid binder and if appropriate in the presence of a diluent,

or

- d) biphenylacyl derivatives of the formula (VIII)



5

in which

A, R, X, Y, m and n are as defined in claim 1

are reacted with hydroxylamine derivatives of the formula (IX)



10

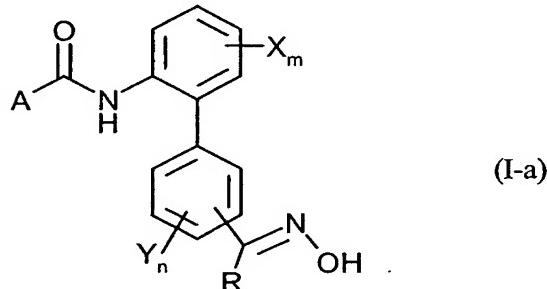
in which

Z is as defined in claim 1,

if appropriate in the presence of an acid binder and if appropriate in the  
15 presence of a diluent,

or

- e) hydroxyimino derivatives of the formula (I-a)



in which

20

A, R, X, Y, m and n are as defined in claim 1

are reacted with compounds of the formula (X)

Z—E                   (X)

in which

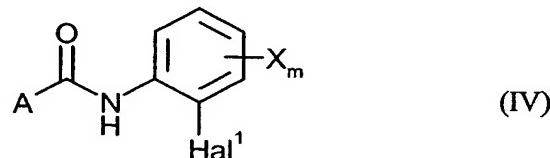
Z       is as defined in claim 1,

E       represents chlorine, bromine, iodine, methanesulfonyl or  
5                   p-toluenesulfonyl,

if appropriate in the presence of an acid binder and if appropriate in the presence of a diluent,

or

10                   f) carboxamide derivatives of the formula (IV)



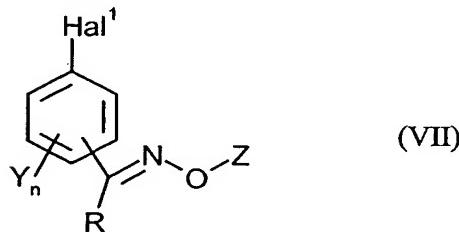
in which

A, X and m are as defined in claim 1,

Hal¹   represents bromine or iodine,

15

are reacted with phenyl oxime derivatives of the formula (VII)



in which

R, Z, Y and n are as defined in claim 1,

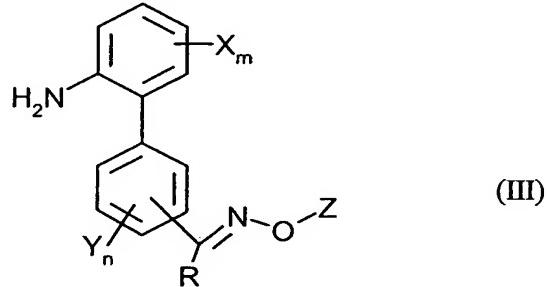
20

Hal¹   represents bromine or iodine

in the presence of a palladium or platinum catalyst and in the presence of 4,4,4',4',5,5,5',5'-octamethyl-2,2'-bis-1,3,2-dioxaborolane, if appropriate in the presence of an acid binder and if appropriate in the presence of a diluent.

25

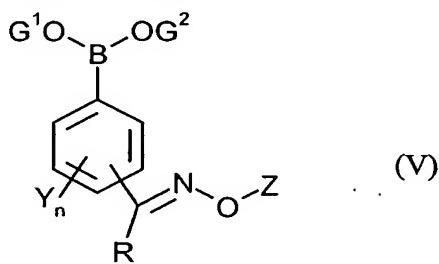
6. A composition for controlling unwanted microorganisms, characterized in that it comprises at least one biphenylcarboxamide of the formula (I) as claimed in claim 1, in addition to extenders and/or surfactants.
- 5      7. The use of biphenylcarboxamides of the formula (I) as claimed in claim 1 for controlling unwanted microorganisms.
- 10     8. A method for controlling unwanted microorganisms, characterized in that biphenylcarboxamides of the formula (I) as claimed in claim 1 are applied to the microorganisms and/or their habitat.
- 15     9. A process for preparing compositions for controlling unwanted microorganisms, characterized in that biphenylcarboxamides of the formula (I) according to claim 1 are mixed with extenders and/or surfactants.
10. An aniline derivative of the formula (III)



in which

R, Z, X, Y, m and n are as defined in claim 1.

- 20     11. A boronic acid derivative of the formula (V)

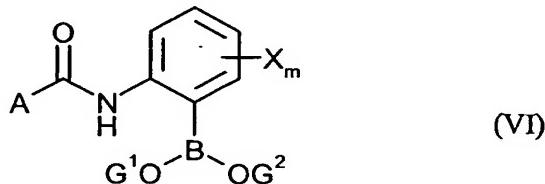


in which

R, Z, Y and n are as defined in claim 1 and

$G^1$  and  $G^2$  each represent hydrogen or together represent tetramethylethylene.

12. A carboxamide boronic acid derivative of the formula (VI)



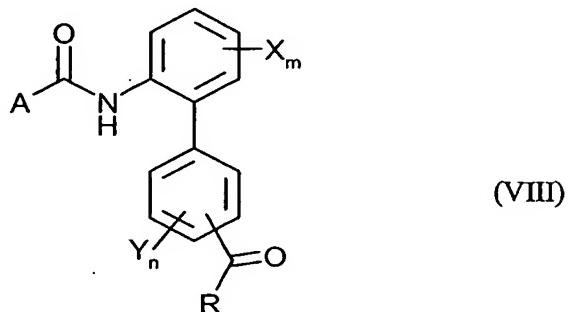
5

in which

A, X and m are as defined in claim 1 and

$G^1$  and  $G^2$  each represent hydrogen or together represent tetramethylethylene.

13. A biphenylacyl derivative of the formula (VIII)

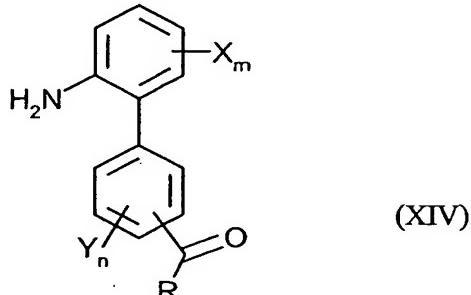


10

in which

A, R, X, Y, m and n are as defined in claim 1.

14. A 2-benzaldehyde aniline derivative of the formula (XIV)



15

in which

R, X, Y, m and n are as defined in claim 1.